

ABSTRACT

A paper treatment agent which contains a copolymer essentially comprising a repeating unit derived from a polyfluoroalkyl group-containing (meth)acrylate, a repeating unit derived from a pyrrolidone monomer, a nitrogen-containing repeating unit such as $-[\text{CH}_2\text{C}(\text{CH}_3)[\text{COOCH}_2\text{CH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_3.\text{Cl}]]-$, and an anionic functional group-containing repeating unit such as $-[\text{CH}_2\text{C}(\text{CH}_3)\text{COOH}]-$ has a relatively low viscosity, and the action of the treatment agent hardly lowers even when a cationic paper strength-enhancing agent is used in combination therewith.